Roller Coaster Physics – Viewing Guide

1. What aspects of roller coasters scare people or give them a thrill?
2. Scientific “Work” is done when a force moves an object. When is Work done on a roller coaster?
3. What type of energy does the roller coaster have at the top of the first large hill, kinetic or potential?
4. What type of energy does the coaster have at the bottom of the first large hill?
5. Define “g” force
6. Define positive “g” force. What does it feel like to the rider?
7. Define negative “g” force. What does it feel like to the rider